# IN THE SPECIFICATION

Please replace the paragraph beginning on page 6, line 23 and continuing to page 7, line 7 with the following amended paragraph:

Controller 18 is a keyboard controller, preferably an integrated circuit (IC) such as the Intel 8042. Keyboard controllers, such as those described generally on page 920 et seq. of the Indispensable PC Hardware Book Handbook (2d ed.), which is hereby incorporated by reference, are known within the art. Generally, controller 18 constantly scans circuits leading to the key switches of the individual keys within keyboard 17. It detects the increase or decrease in current from the key that has been pressed. By detecting either an increase or decrease in current, the controller can tell both when a key has been pressed and when it has been released. Each key has a unique set of codes associated with the key. These codes are known as scan codes. There are two scan codes for each key, one for when the key is depressed and the other for when the key is released. When a user presses or releases a key, controller 18 stores the associate scan code in its buffer, and then signals BIOS 20 via an interrupt request (e.g., IRQ 1) that it has a scan code waiting in the buffer. BIOS 20 then receives this scan code from controller 18. Upon receiving the scan code, BIOS 20 instructs controller 18 to delete the code from its buffer.

On page 9 before the first full paragraph beginning at line 2, please add the following paragraphs:

## The Keyboard

Depending upon whether you use a keyboard with American, British or some other language assignment, some control, shift or other keys may be named differently. Furthermore, in the literature you will sometimes find different names for the same key, for example the enter or CR keys. Therefore, the following table lists some different names for these keys.

Name

Alternative names

enter key

CR key

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control key (Ctrl) alternative key (Alt) shift key (Shift) shift-lock key caps-lock cursor up cursor down cursor left cursor right insert (ins) delete (Del) cursor home (Home) clear-home end (End) page up (Pg Up) page down (Pg Dn) system request (S-Reg)

# Scan codes - A Keyboard Map

You may have wondered how a keyboard with a British keyboard layout can be connected to a Taiwanese PC without the PC always mixing Chinese and English. The reason is quite simple: every key is assigned a so-called scan code that identifies it.

# Scan Codes USA

| key | scan o | scan code |  |
|-----|--------|-----------|--|
|     | dec    | hex       |  |
| F1  | 59     | 3b        |  |
| F2  | 60     | 3c        |  |
| F3  | 61     | 3d        |  |
| F4  | 62     | 3e        |  |
| F5  | 63     | 3f        |  |
| F6  | 64     | 40        |  |
| F7  | 65     | 41        |  |

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| F8        | 66 | 42 |
|-----------|----|----|
| F9        | 67 | 43 |
| F10       | 68 | 44 |
| Scroll    | 70 | 46 |
| home      | 71 | 47 |
| cursor up | 72 | 48 |
| page up   | 73 | 49 |
| cursor le | 75 | 4b |
| cursor ri | 77 | 4d |
| end       | 79 | 4f |
| cursor do | 80 | 50 |
| page do   | 81 | 51 |
| F11       | 87 | 57 |
| F12       | 88 | 58 |